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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,771	08/19/2003	James R. Kvitrud	58449US002	4116
Eloise J Maki F	7590 11/27/200°	EXAMINER		
3M Innovative Properties Company Office of Intellectual Property Counsel P O Box 33427			BUMGARNER, MELBA N	
			ART UNIT	PAPER NUMBER
St Paul, MN 55	St Paul, MN 55133-3427			
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			MAIL DATE	DELIVERY MODE
			. 11/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)				
Office Action Summers	10/643,771	KVITRUD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Melba Bumgamer	3732				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING. D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION AT A THE OF THIS COMMUNICATION AS A SECTION	ATION.  ly be timely filed  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 O	october 2007.					
2a) This action is <b>FINAL</b> . 2b) This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-67</u> is/are pending in the application						
	4a) Of the above claim(s) <u>19-67</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.	6)⊠ Claim(s) 1-18 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by	y the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	•					
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ol><li>Copies of the certified copies of the prio</li></ol>	rity documents have been re	eceived in this National Stage				
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a list	of the certified copies not re	eceived.				
·		* .				
Attachment(s)	<b>.</b> □	PRO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		ormal Patent Application				

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## **DETAILED ACTION**

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## Claim Objections

1. Claim 5 is objected to because of the following informalities: "scaled" should read – sealed—since it is designated an original claim. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kahn (3,949,476). Kahn discloses a dental crown form comprising a body defining an anatomically tooth-shaped volume, the body comprising a base and an incisal/occlusal region distal from the base, hardenable dental material for forming dental crown located within the volume, and a handle attached to the body at a location removed from the base and closer to the incisal/occlusal region than the base (figure 1b).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-6, 9, 10, 13, 14, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. (6,283,755). Kahn discloses a dental form

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that shows the limitations as described above; however, Kahn does not show the dental form having a hollow handle. Bergstrom et al. teach a dental form comprising a hollow tubular handle 5', the hollow handle defines a handle volume 14 that is in fluid communication with the volume of the body through an opening in the body. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the dental form of Kahn to have the handle of Bergstrom et al. for relieving hydrostatic pressure in view of Bergstrom et al. It would have been obvious matter of choice to one of ordinary skill in the art as to the handle having a scaled tip. The handle volume is more than 5% of the body volume.

- 6. Claims 7, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. and further in view of Willison et al. (2004/0005277). The modified dental form of Kahn and Bergstrom et al. shows the limitations as described above; however, they do not show the dental form located within a hermetically sealed package. Willison et al. teach a dental form (device) placed in a hermetically sealed package [0155]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the dental form to be packaged as in Willison et al. in order to contain and transport the device to the user in view of Willison et al.
- 7. Claims 8, 12, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. and further in view of Subelka et al. (6,696,507). The modified dental form of Kahn and Bergstrom et al. shows the limitations as described above; however, they do not show the dental form located within an actinic light barrier package. Subelka et al. teach dental material placed in an actinic light barrier package 10 (column 5 line 23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to further

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modify the dental form to be packaged as in Subelka et al. in order to protect the contents from

premature exposure to light in view of Subelka et al.

Response to Arguments

8. Applicant's arguments with respect to the rejected claims have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Melba Bumgarner whose telephone number is 571-272-4709.

The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cris Rodriguez can be reached at 571-272-4964. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melba Bumgarner Bungarner

**Primary Examiner** 

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